NAME: **HONORS CHEMISTRY**

SECTION: introducing calorimetry

Open up the following interactive:

<https://media.pearsoncmg.com/bc/bc_0media_chem/chem_sim/calorimetry/Calor.php>

Work through the demonstration. Answer any questions in the interactive and also answer the following questions:

*Demo 1: Mixing 2 samples of water*

* What is a calorimeter?

Run the experiment in graph view.

* What happens to the temperature of the cold water when the samples are mixed?
* What happens to the temperature of the warm water when the samples are mixed?

Run the experiment in microscopic view.

* Describe the movement of the particles as the samples are mixed.

*Demo 2: Placing a sample of heated copper metal in water*

Run the demonstration, including graph view and microscopic view.

* What happens to the temperature of the copper when the samples are mixed?
* What happens to the temperature of the water when the samples are mixed?
* Describe how the motion of the particles changes as the samples are mixed.